

USER MANUAL

User Manual

20" LCD 1600 x 1200



NP120 1U LCD Drawer

Options:

- AV / HDMI / Audio
- DC power

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Before Installation

- It is very important to mount the equipment in a suitable cabinet or on a stable surface.
- Make sure the place has a good ventilation, is out of direct sunlight, away from sources of excessive dust, dirt, heat, water, moisture and vibration.

Unpacking

The equipment comes with the standard parts shown in package content. Check and make sure they are included and in good condition. If anything is missing, or damaged, contact the supplier immediately.

How To Clean Your LCD Monitor



A Caution :

- To avoid the risk of electric shock, make sure your hands are dry before unplugging your monitor from or plugging your monitor into an electrical outlet.
- When you clean your monitor, do not press down on the LCD screen. Pressing down on the screen can scratch or damage your display. Pressure damage is not covered under warranty.
- Use only cleansers made specifically for cleaning monitors and monitor screens. Cleansers not made to clean monitors and monitor screens can scratch the LCD display or strip off the fi nish.
- Do not spray any kind of liquid directly onto the screen or case of your monitor. Spraying liquids directly onto the screen or case can cause damage which is not covered under warranty.
- Do not use paper towels or abrasive pads to clean your monitor. Using an abrasive pad or any wood based paper product such as paper towels can scratch your LCD screen.

Cleaning Your Monitor

To clean your LCD safely, please follow these steps:

- 1 Disconnect the power cord.
- 2 Gently wipe the surface using a clean, dry microfi ber cloth. Use as little pressure as possible.

Cleaning Tough Marks and Smudges

To remove tough marks and smudges, please follow these steps:

- Disconnect the power cord.
- 2 Spray a small amount of non-abrasive cleanser on a microfi ber cloth.
- Caution: Do not spray or apply any liquids directly onto the monitor. Always apply the solution to your microfiber cloth first, not directly on the parts you are cleaning.
- 3 Gently wipe the surface. Use as little pressure as possible.
- Wait until your monitor is completely dry before plugging it in and powering it up.

<Part 1 > < 1.1 > Package Content



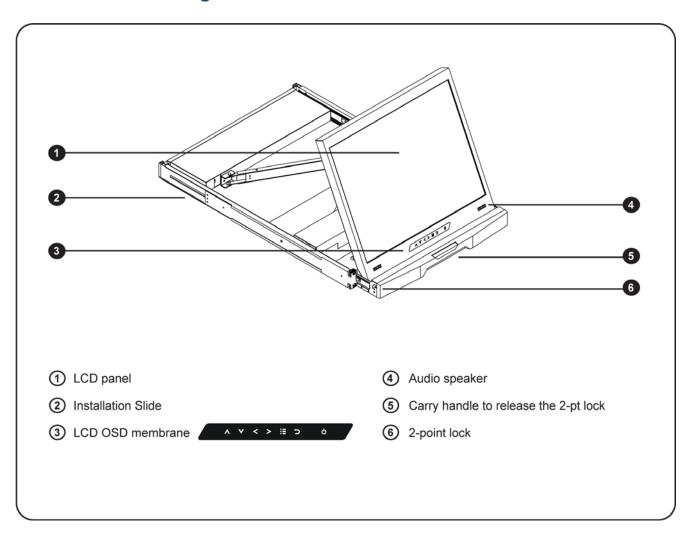
NP120 unit X 1

- 6ft VGA cable X 1
- Power cord X 1
- M6 screw, cage nut & cup washer X 8



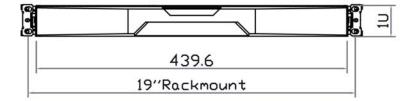
The above package content is only for the pure model (VGA and DVI-D only). It varies with options such as HDMI, AV, audio & DC power.

< 1.2 > Structure Diagram



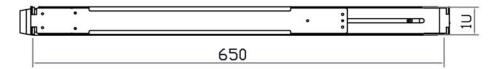
< 1.2 > Dimension NP120

Front View

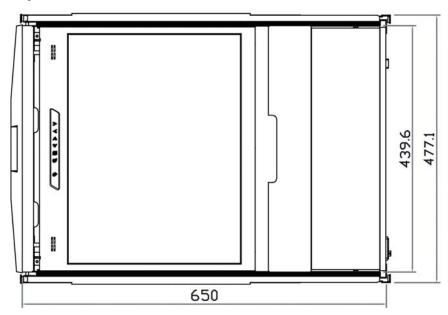


Side View

UNIT : mm 1mm = 0.03937 inch



Top View

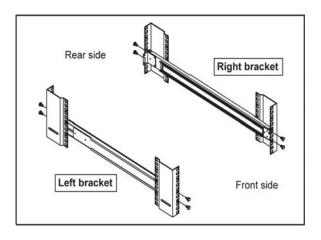


Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
NP120	439.6 x 650 x 44 mm	595 x 860 x 140 mm	13.5 kg	17.5 kg
	17.3 x 25.6 x 1.73"	23.4 x 33.9 x 5.5"	30 lb	39 lb



The weight is only for the pure models. It varies with accessories & options such as SDI, HDMI, AV, audio & DC power.

< 1.3 > Installation - How to install



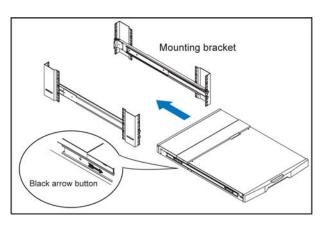
1U 20" LCD Tray

Step 1

- Attach the I left and right mounting bracket I to rack 19" mounting rails.
- Adjust the mounting bracket to fi t your rack.
- M6 screw x 8 pcs included.

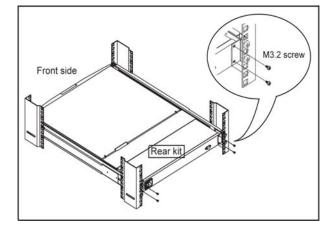


Leave all M6 screws slightly loose, until you complete the installation in step 3



Step 2

- Pick up the LCD tray
- Insert the LCD tray into the mounting bracket.
- Pull and hold the left & right black arrow buttons on the rails.
- Return the LCD tray to park position.

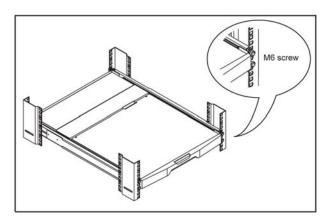


Step 3

■ Fix the [rear kit] to the mounting bracket with M3.2 screw x 4 pcs included.



This step is necessary. Failure to complete this will cause damage.



Step 4

Complete the installation

■ Tighten all 8 pcs of M6 screw to complete the installation.

<Part 2 > < 2.1 > Product Specifications

LCD	Manufacturer	LG	
Panel	Panel Size (diagonal)	20-inch TFT color LCD	
	Display pixel (dots x lines)	1600 x 1200	
	Brightness (typ.)	300	
	Contrast Ratio (typ.)	800:1	
	Color	16.7 M	
	Viewing Angle (L/R/U/D)	89/89/89	
	Response Time (ms)	16	
	Dot pitch (mm)	0.255	
	Display Area (mm)	408.00H x 306.00V	
	Surface treatment	Anti-glare, Hard-coating	
	Surface hardness	3H	
	Backlight Type	CCFL	
	MTBF (hrs)	45,000	

Video	Digital	HDMI	HDMI 1.1, CEA-861-D
Connectivity		DVI	DVI-D, TMDS single link
	Analog	VGA	Analog 0.7Vp-p
		Composite (BNC)	NTSC & PAL
		S-Video (4-pin)	NTSC & PAL
	Plug & Play	DVI / VGA	VESA EDID structure 1.3
	Synchronization	VGA	Separate, Composite & SOG

Audio	Audio Input	Connector	3.5mm stereo jack
Connectivity		Impedance / Power level	30kQ / 750mV
	Audio Output	Connector	3.5mm stereo jack
		Resistance / Power level	30kQ / 2.8V
	Speaker Output	Power	2 x 2W

^{*}When the audio output is connected, speaker output is OFF

Power	Power Supply		Auto-sensing 100 to 240VAC, 50 / 60Hz
	Power Consumption	Screen display ON	48W or less
		Power saving mode	4W or less
		Power button OFF	1W or less

Regulatory	Safety Approval	cUL, FCC & CE, RoHS

Environmental	Operating	Temperature	0 to 50°C degree
Conditions		Humidity	20~90%, non-condensing
	Storage	Temperature	-5 to 60°C degree
		Humidity	5~90%, non-condensing
		Shock	10G acceleration (11ms duration)
		Vibration	5~500Hz 1G RMS random

Physical Specifi cation	Product (WxDxH)	439.6 x 650 x 44 mm
Specifi cation		17.3 x 25.6 x 1.73 inch
	Packing (WxDxH)	595 x 860 x 140 mm
		23.4 x 33.9 x 5.5 inch
	Net Weight	13.5 kgs / 30 lbs
	Gross Weight	17.5 kgs / 39 lbs

Applicable	DVI-D / VGA Input	PC Signal	1600 x 1200 x 60Hz
Format			1400 x 1050 x 60Hz
			1440 x 900 x 60Hz
			1360 x 768 x 60Hz
			1280 x 1024 x 60 / 75Hz
			1280 x 960 x 60Hz
			1280 x 760 x 60 / 75Hz
			1152 x 864 x 75Hz
			1024 x 768 x 60 / 70 / 75Hz
			848 x 480 x 60Hz
			800 x 600 x 60 / 72 / 75Hz
			720 x 400 x 70Hz
			640 x 480 x 60 / 72 / 75Hz
			640 x 400 x 70Hz
			640 x 350 x 70Hz



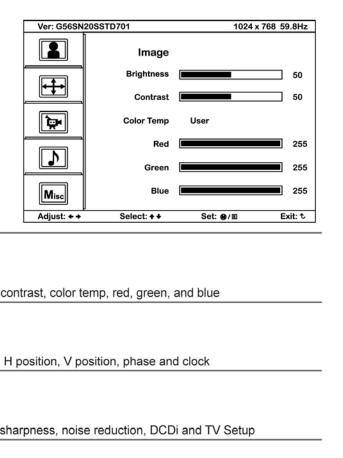
Membrane Switch	Function	
Ф	Turn the monitor on or off	
	Display the OSD menu Act as an Enter key to select screen setting options	
	Scroll through menu options and adjust the displayed control	
	Exit the OSD screen Go back to the previous on-screen sub-menu or main menu	

Remark : All LED touch buttons in WHITE light.

The LED of **Power** touch button will flash continuously when there is no signal input.

- ① All the LED touch buttons will automatically turn off after 10 minutes of idle status (except the **Power** 🕲).
- 2 Light up all membrane buttons, please press any button for 1 2 seconds (except the **Power** 🖒).

< 2.2 > On-screen Display Operation (OSD)



OSD Configuration Page



Image:

for the brightness, contrast, color temp, red, green, and blue



Geometry:

for the auto adjust, H position, V position, phase and clock



Video:

for the colour, tint, sharpness, noise reduction, DCDi and TV Setup



Audio:

for volume, bass, treble, balance, AVL and mute



Misc:

for the language, OSD position, graphic mode, ratio, reset and timer

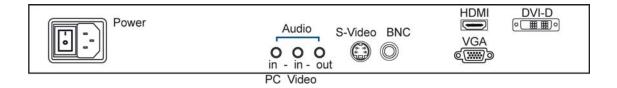
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<Part 3 > < 3.1 > Options :
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NP120

HDMI (HDMI 1.1, CEA-861-D)
 AV (S-Video + Composite, BNC)
 Audio (3.5mm audio jacks for audio in & out, and 2W + 2W speakers)



Either HDMI or DVI-D can be selected.



< 3.3 > Options : DC Power



Model	12V	24V	48V
Input rating			
Input voltage:	12-Volt	24-Volt	48-Volt
Input range:	9 ~ 18V	18 ~ 36V	36 ~ 75V
Input current			
- No load	50 mA	50 mA	50 mA
- Full load	4950 mA	2450 mA	1220 mA
Output rating			
Output voltage:	12-Volt	12-Volt	12-Volt
Output current:	4.16A	4.16A	4.16A
Efficiency	84%	85%	85%

DC power



Option excludes 1 x power cord and 1 x AC power adapter

